

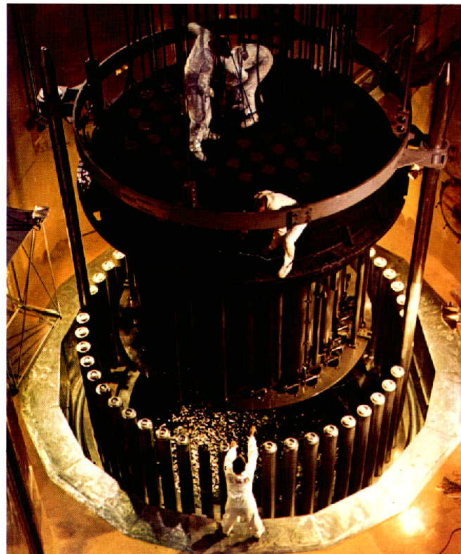
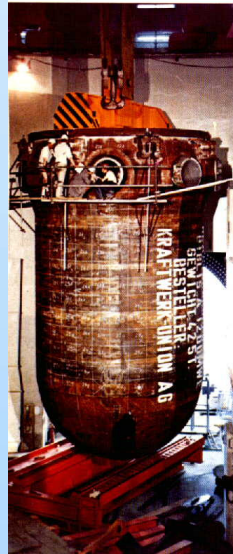
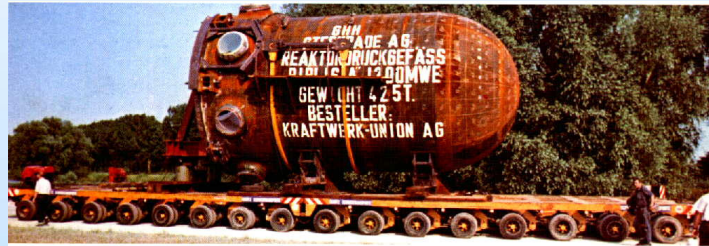


**COMPARISON OF FBNR
WITH A
CONVENTIONAL NUCLEAR REACTOR (PWR)
AT A GLANCE**

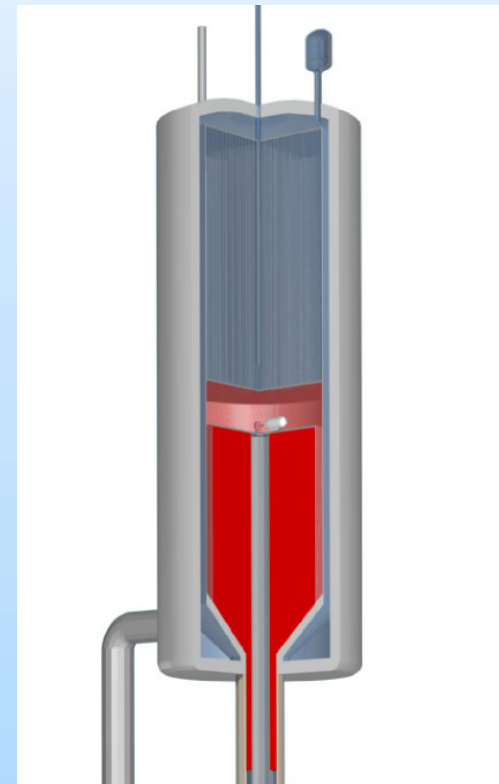


Pressure Vessel

PWR



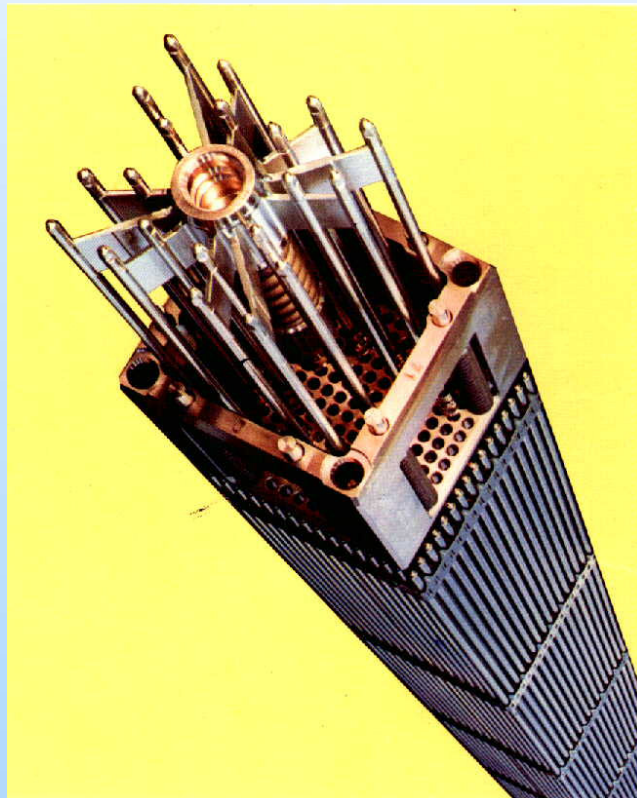
FBNR





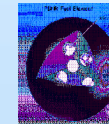
Fuel element

PWR



4000 mm high

FBNR



15 mm diameter



Control system

PWR



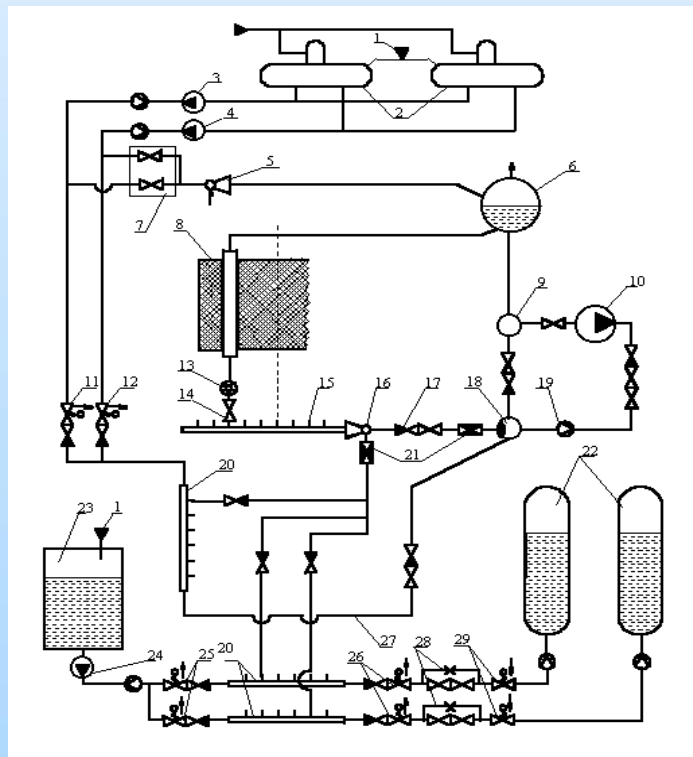
FBNR



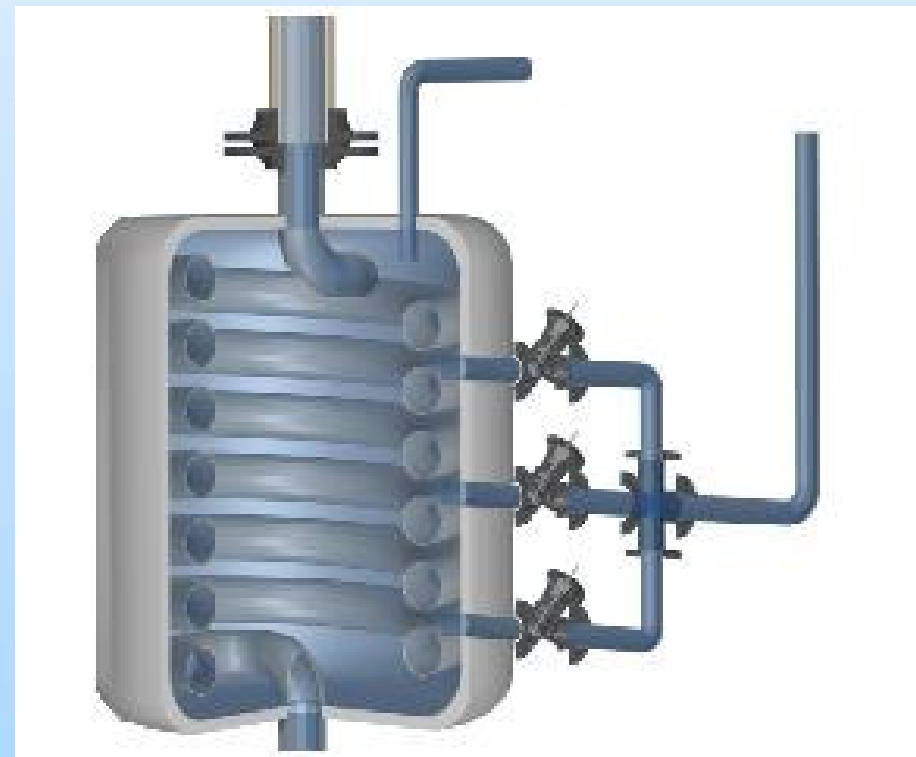


Emergency Core Cooling System

PWR



FBNR





Fixed Bed Nuclear Reactor

FBNR

www.sefidvash.net

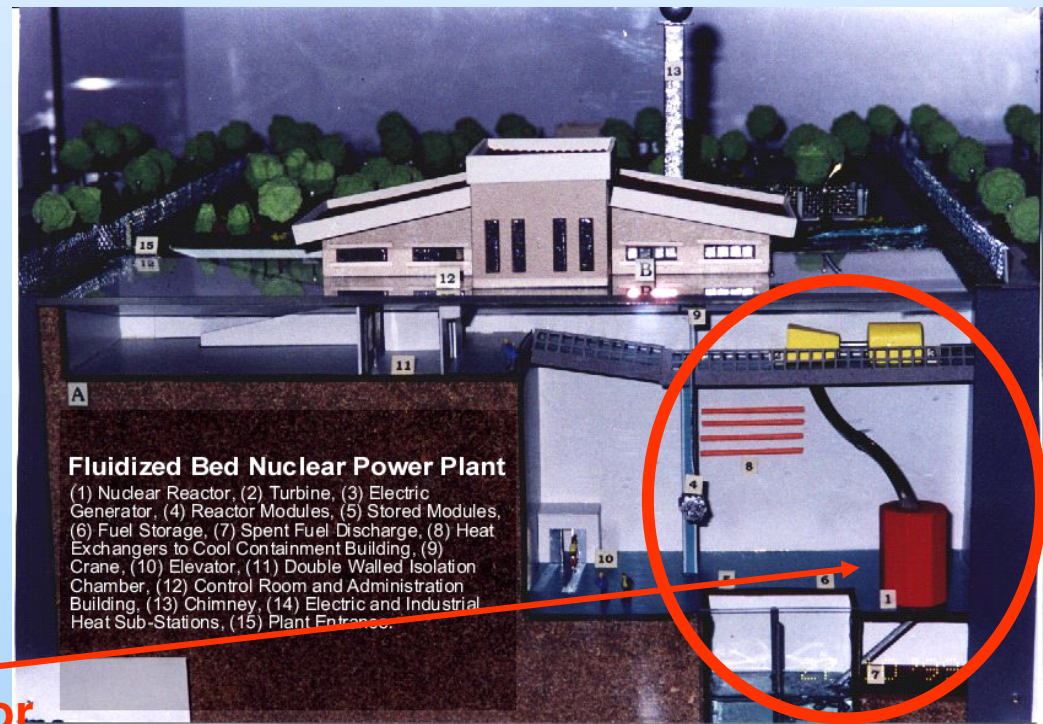
Containment building

PWR



Reactor

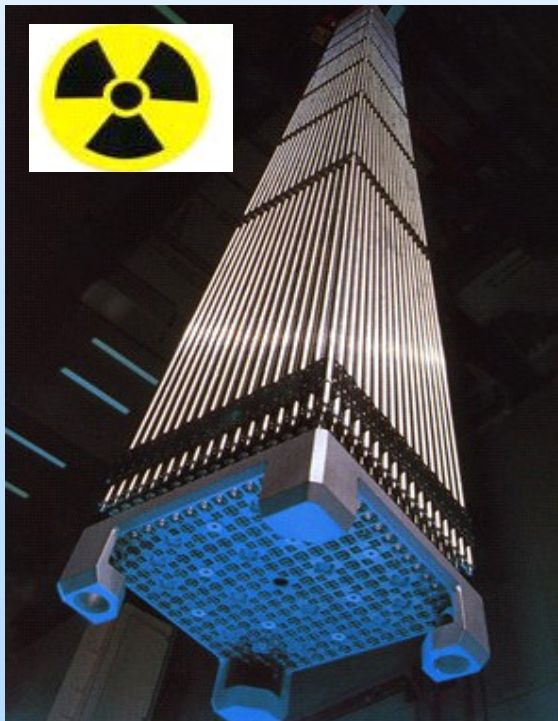
FBNR





Spent fuel

PWR



**Considered
Nuclear Waste**

FBNR



**Has useful applications in medicine,
industry and agriculture.**



Nuclear Power Plant

PWR



An Industrial complex

FBNR



Garden Like Environment



Fixed Bed Nuclear Reactor

FBNR

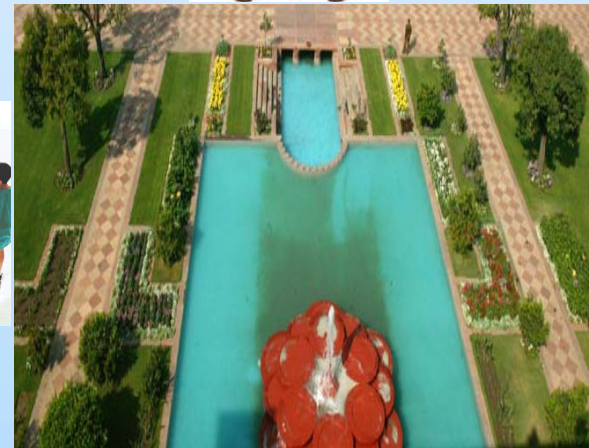
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Non-proliferation Resistance

PWR



FBNR





Fixed Bed
Nuclear Reactor

FBNR

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Inherent safety vs Active safety

PWR



FBNR





Status of FBNR

- FBNR is a small innovative nuclear reactor, simple in design having the characteristics of inherent safety and passive cooling with reduced environmental impact.
- It is developed under the auspices of the International Atomic Energy Agency (IAEA) and has been evaluated by the IAEA's INPRO Methodology.